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## FINAL 2002 ASSESSMENT SUMMARY BY WATERBODY TYPE

Notes: 1. See the Consolidated Assessment and Listing Methodology for definitions and details regarding how this list was developed.

Waterbody Type: **ESTUARY** 

# Total Size for each Category (SQUARE MILES)

2 3 4B 4C Total Category 1 **Total Size** .00 .00 .00 .00 21.33 .00 .00 21.33

## Total Size for Each Use and Use Support (SQUARE MILES and %)

Use	Fully Supporting		Not Supp	Not Supporting		Insufficient Information		essed	Total	Threatened	
Aquatic Life	.00	.0%	.00	.0%	20.29	95.1%	1.04	4.9%	21.33 100.0%	.09	.4%
Fish Consumption	.00	.0%	21.33	100.0%	.00	.0%	.00	.0%	21.33 100.0%	.00	.0%
Primary Contact Recreation	9.51	44.6%	5.20	24.4%	5.55	26.0%	1.07	5.0%	21.33 100.0%	.00	.0%
Secondary Contact Recreation	11.58	54.3%	.12	.6%	.00	.0%	9.63	45.1%	21.33 100.0%	.00	.0%
Shellfishing	.00	.0%	21.33	100.0%	.00	.0%	.00	.0%	21.33 100.0%	.00	.0%
Wildlife	.00	.0%	.00	.0%	.00	.0%	21.33	100.0%	21.33 100.0%	.00	.0%

## **Total Size of Causes of Impairment (SQUARE MILES)**

Cause	I otal Size
Chlorophyll-a	.47
Copper	.09
Dioxin (including 2,3,7,8-TCDD)	21.33
Enterococcus	5.20
Mercury	21.33
Polychlorinated biphenyls	21.33
Total Fecal Coliform	4.14

## Total Size of Sources of Impairment (SQUARE MILES)

Source	Total Size
Animal Feeding Operations (NPS)	.47
Atmospheric Depositon - Toxics	21.33
Combined Sewer Overflows	3.06
Illicit Connections/Hook-ups to Storm Sewers	.36
Municipal Point Source Discharges	.56
Sanitary Sewer Overflows (Collection System Failures)	1.10
Source Unknown	21.33
Unpermitted Discharge (Domestic Wastes)	1.00
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	2.71

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## FINAL 2002 ASSESSMENT SUMMARY BY WATERBODY TYPE

Notes: 1. See the Consolidated Assessment and Listing Methodology for definitions and details regarding how this list was developed.

Waterbody Type: FRESHWATER LAKE

# **Total Size for each Category (ACRES)**

2 3 4A 4B 4C Total Category 1 **Total Size** .00 .00 .00 165979.80 165979.80 .00 .00 .00

## Total Size for Each Use and Use Support (ACRES and %)

Use	Fully Supporting		Not Supp			ficient Not Assessed		Total	Threatened		
Aquatic Life	.00	.0%	79598.66	48.0%	84085.45	50.7%	2295.70	1.4%	165979.80 100.0%	.00	.0%
Drinking Water After Adequate Treatment	9816.75	5.9%	618.80	.4%	.00	.0%	155544.25	93.7%	165979.80 100.0%	.00	.0%
Fish Consumption	.00	.0%	165979.80	100.0%	.00	.0%	.00	.0%	165979.80 100.0%	.00	.0%
Primary Contact Recreation	95523.03	57.6%	85.03	.1%	67767.22	40.8%	2604.53	1.6%	165979.80 100.0%	.00	.0%
Secondary Contact Recreation	95916.66	57.8%	.00	.0%	62743.60	37.8%	7319.55	4.4%	165979.80 100.0%	.00	.0%
Wildlife	.00	.0%	.00	.0%	.00	.0%	165979.80	100.0%	165979.80 100.0%	.00	.0%

#### **Total Size of Causes of Impairment (ACRES)**

Cause	Total Size
Aluminum	485.5
Chlorophyll-a	53.5
Escherichia coli	31.53
Excess Algal Growth	618.8
Mercury	165979.80
Non-Native Aquatic Plants	69796.67
Oxygen, Dissolved	5.5
Polychlorinated biphenyls	5249.9
pH	14157.87

#### **Total Size of Sources of Impairment (ACRES)**

Source	Total Size
Atmospheric Depositon - Acidity	10005.69
Atmospheric Depositon - Toxics	165979.80
Commerical Districts (Shopping/Office Complexes)	17.60
Municipal (Urbanized High Density Area)	389.50
Naturally Occurring Organic Acids	4152.18
Pollutants from Public Bathing Areas	31.53
Residential Districts	19.80
Source Unknown	75108.07
Transfer of Water from an Outside Watershed	245.40

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## FINAL 2002 ASSESSMENT SUMMARY BY WATERBODY TYPE

Notes: 1. See the Consolidated Assessment and Listing Methodology for definitions and details regarding how this list was developed.

Waterbody Type: **IMPOUNDMENT** 

## **Total Size for each Category (ACRES)**

2 3 4A 4B 4C Total Category 21748.86 **Total Size** .00 .00 .00 .00 21748.86 .00 .00

#### Total Size for Each Use and Use Support (ACRES and %)

Use	Fully Supporting		Not Supporting		Insufficient Information		Not Assessed		Total	Threatened	
Aquatic Life	.00	.0%	3906.30	18.0%	7352.24	33.8%	10490.32	48.2%	21748.86 100.0%	9.00	.0%
Drinking Water After Adequate Treatment	3555.68	16.3%	.00	.0%	.00	.0%	18193.18	83.7%	21748.86 100.0%	.00	.0%
Fish Consumption	.00	.0%	21748.86	100.0%	.00	.0%	.00	.0%	21748.86 100.0%	.00	.0%
Primary Contact Recreation	1910.65	8.8%	956.50	4.4%	4286.69	19.7%	14595.02	67.1%	21748.86 100.0%	.00	.0%
Secondary Contact Recreation	2278.65	10.5%	.00	.0%	4057.09	18.7%	15413.12	70.9%	21748.86 100.0%	.00	.0%
Wildlife	.00	.0%	.00	.0%	.00	.0%	21748.86	100.0%	21748.86 100.0%	.00	.0%

## **Total Size of Causes of Impairment (ACRES)**

Cause	Total Size
Copper	2000
Dioxin (including 2,3,7,8-TCDD)	384.1
Dissolved oxygen saturation	508
Escherichia coli	956.5
Mercury	21748.86
Non-Native Aquatic Plants	670.3
Oxygen, Dissolved	116
Polychlorinated biphenyls	9470
pH	721

#### **Total Size of Sources of Impairment (ACRES)**

Source	Total Size
Atmospheric Depositon - Toxics	21748.86
Combined Sewer Overflows	562.00
Illicit Connections/Hook-ups to Storm Sewers	238.50
Industrial Point Source Discharge	393.10
Municipal Point Source Discharges	66.00
Naturally Occurring Organic Acids	19.00
Pollutants from Public Bathing Areas	.00
Source Unknown	11394.30

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## FINAL 2002 ASSESSMENT SUMMARY BY WATERBODY TYPE

Notes: 1. See the Consolidated Assessment and Listing Methodology for definitions and details regarding how this list was developed.

## **Total Size for each Category (SQUARE MILES)**

Category	1	2	3	4A	4B	4C	5	Total
Total Size	.00	.00	.00	.00	.00	.00	70.33	70.33

## Total Size for Each Use and Use Support (SQUARE MILES and %)

Use		Fully Supporting		Not Supporting		cient ation	Not Assessed	Total	Threatened	
Aquatic Life	.00	.0%	.00	.0%	.00	.0%	70.33 100.0%	70.33 100.0%	.00 .0%	
Fish Consumption	.00	.0%	70.33	100.0%	.00	.0%	.00 .0%	70.33 100.0%	.00 .0%	
Primary Contact Recreation	4.50	6.4%	.05	.1%	.00	.0%	65.78 93.5%	70.33 100.0%	.00 .0%	
Secondary Contact Recreation	4.50	6.4%	.00	.0%	.00	.0%	65.83 93.6%	70.33 100.0%	.00 .0%	
Shellfishing	.00	.0%	70.33	100.0%	.00	.0%	.00 .0%	70.33 100.0%	.00 .0%	
Wildlife	.00	.0%	.00	.0%	.00	.0%	70.33 100.0%	70.33 100.0%	.00 .0%	

## **Total Size of Causes of Impairment (SQUARE MILES)**

Cause	Total Size
Dioxin (including 2,3,7,8-TCDD)	70.33
Enterococcus	.05
Mercury	70.33
Polychlorinated biphenyls	70.33
Total Fecal Coliform	.26

# Total Size of Sources of Impairment (SQUARE MILES)

Source	Total Size
Atmospheric Depositon - Toxics	70.33
Source Unknown	70.33
Unpermitted Discharge (Domestic Wastes)	.05
Waterfowl	.05

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## FINAL 2002 ASSESSMENT SUMMARY BY WATERBODY TYPE

Notes: 1. See the Consolidated Assessment and Listing Methodology for definitions and details regarding how this list was developed.

Waterbody Type: **RIVER** 

## **Total Size for each Category (MILES)**

2 3 4A 4B 4C 5 Total Category 1 **Total Size** .00 .00 .00 .00 9606.91 .00 .00 9606.91

## Total Size for Each Use and Use Support (MILES and %)

Use	Full Supp	ly porting	Not Supp	orting	Insuffi Inform		Not Ass	essed	Total	Threa	atened
Aquatic Life	.00	.0%	754.28	7.9%	1703.65	17.7%	7148.99	74.4%	9606.91 100.0%	14.89	.2%
Drinking Water After Adequate Treatment	334.89	3.5%	.00	.0%	.00	.0%	9272.02	96.5%	9606.91 100.0%	.00	.0%
Fish Consumption	.00	.0%	9606.91	100.0%	.00	.0%	.00	.0%	9606.91 100.0%	.00	.0%
Primary Contact Recreation	809.80	8.4%	415.41	4.3%	356.13	3.7%	8025.57	83.5%	9606.91 100.0%	.00	.0%
Secondary Contact Recreation	1144.73	11.9%	33.03	.3%	360.00	3.7%	8069.15	84.0%	9606.91 100.0%	.00	.0%
Wildlife	.00	.0%	.00	.0%	.00	.0%	9606.91	100.0%	9606.91 100.0%	.00	.0%

#### **Total Size of Causes of Impairment (MILES)**

Cause	Total Size
Aluminum	8.59
Arsenic	5.77
Benthic-Macroinvertebrate Bioassessments (Streams)	8.2
Cadmium	5.27
Chromium (total)	.5
Copper	29.43
DDD	.5
Dioxin (including 2,3,7,8-TCDD)	18.19
Dissolved oxygen saturation	28.06
Escherichia coli	415.41
Iron	21.53
Lead	26.33
Manganese	3
Mercury	9606.91
Non-Native Aquatic Plants	34.21
Other flow regime alterations	6.86
Oxygen, Dissolved	110.42
Polychlorinated biphenyls	176.05
Zinc	14.91
рН	613.81

## **Total Size of Sources of Impairment (MILES)**

Source	Total Size
Acid Mine Drainage	5.25
Airports	1.00
Animal Feeding Operations (NPS)	.30
Atmospheric Depositon - Toxics	9605.90
Combined Sewer Overflows	49.50
Illicit Connections/Hook-ups to Storm Sewers	32.23
Impacts from Hydrostructure Flow Regulation/modification	6.86
Industrial Point Source Discharge	28.62
Landfills	27.21
Livestock (Grazing or Feeding Operations)	8.01
Municipal (Urbanized High Density Area)	2.57
Municipal Point Source Discharges	38.21
Pollutants from Public Bathing Areas	.04
Source Unknown	1038.73
Waterfowl	.30